TENT COOPERATION TREATY



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PE-39 35	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/BR 00/00105	20/09/2000	20/09/1999		
Applicant EMPRESA BRASILEIRA DE COM	PRESSORES S.A.			
according to Article 18. A copy is being tra This International Search Report consists				
a. With regard to the language, the	international search was carried out on the ba ess otherwise indicated under this item.	sis of the international application in the		
Authority (Rule 23.1(b)). b. With regard to any nucleotide anwas carried out on the basis of the contained in the internatio filed together with the international subsequently to furnished subsequently to the statement that the subsinternational application as the statement that the informational application as the statement that the information and the statement that the information and the statement that the information is lack.	e sequence listing: nal application in written form. rnational application in computer readable form this Authority in written form. this Authority in computer readble form. esequently furnished written sequence listing destricted has been furnished. ermation recorded in computer readable form in the computer readable form in the computer readable.	nternational application, the international search		
4. With regard to the title , X the text is approved as su the text has been establish	bmitted by the applicant. hed by this Authority to read as follows:			
5. With regard to the abstract,				
the text is approved as sult the text has been establish within one month from the	bmitted by the applicant. hed, according to Rule 38.2(b), by this Authori date of mailing of this international search rep	ty as it appears in Box III. The applicant may, port, submit comments to this Authority.		
6. The figure of the drawings to be publicated by the applicant failed because the applicant failed because this figure better	cant.	4 None of the figures.		

ernational application No.

INTERNATIONAL SEARCH REPORT

PCT/BR 00/00105

B x III TEXT OF THE ABSTRACT (Continuation of item 5 f th first sheet)

The abstract is changed as follows:

A method for controlling and protecting electric motors (10) provided with a rotor, specially permanent magnet motors electronically actuated by a control system (2) comprising a three-phase inverting bridge (5), characterized by being comprised of the step of counting a first period of time, during which said rotor should be between an original position and the next position, and the step of counting a second period of time that follows said first period of time, during which said rotor should pass through said next position. The present invention is also expressed as a control system (2) for an electric motor (10) provided with a rotor, specially a permanent magnet motor, comprising a three-phase inverting bridge (5) and characterized by being additionally comprised of a microcontroller capable of analyzing the positions of the rotor as a function of the time, associated with a counter capable of carrying out the step of counting a first period of time, during which said rotor should be between an original position and the next position, and the stage of counting a second period of time that follows said first period of time, during which said rotor should pass through said next position, as well-as an electric motor. (1) comprising the control system (2).



A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H02P6/12					
According to	b International Patent Classification (IPC) or to both national classifica	ation and IPC			
<u>-</u>	SEARCHED		,		
	ocumentation searched (classification system followed by classification H02P	on symbols)			
	tion searched other than minimum documentation to the extent that s				
Electronic d	ata base consulted during the international search (name of data ba	se and, where practical, search terms used)		
EPO-In	ternal, WPI Data, PAJ				
C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.		
Α	US 4 532 461 A (CROOK JAMES C) 30 July 1985 (1985-07-30) column 1, line 29 - line 34; clai	ims 1,2	1-6		
	column 5, line 35 - line 37 	·	1		
А	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 02, 30 January 1998 (1998-01-30) -& JP 09 261991 A (FUJITSU GENERAL LTD), 3 October 1997 (1997-10-03) abstract		1-6		
Furti	ner documents are listed in the continuation of box C.	χ Patent family members are listed	in annex.		
"A" docume	tegories of cited documents: ent defining the general state of the art which is not	"T" later document published after the inte or priority date and not in conflict with cited to understand the principle or the	the application but		
"E" earlier o	considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention				
'L' docume which	*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another which we consider the properties of the constant of th				
O docume other r	"O" document referring to an oral disclosure, use, exhibition or other means "O" document referring to an oral disclosure, use, exhibition or other means "O" document is combined with one or more other such documents, such combination being obvious to a person skilled				
later th		in the art. *& document member of the same patent	<u> </u>		
Date of the	actual completion of the international search	Date of mailing of the international sea	irch report		
1	1 January 2001	22/01/2001			
Name and r	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk	Authorized officer			
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Roy, C			

ion on patent family members

tional Application No PCT/BR 00/00105

					PCI/BR	00/00105
Pa cited	itent document I in search report		Publication date	Patent family member(s)		Publication date
US	4532461	Α	30-07-1985	NONE		
JP	09261991	Α	03-10-1997	NONE		
	·					
_	-		-			

Inter nal Application No PCT/BR 00/00105

A. CLASSI	FICATION OF SUBJECT MATTER				
IPC 7	H02P6/12				
According to	International Patent Classification (IPC) or to both national classific	ation and IPC			
	SEARCHED				
	cumentation searched (classification system followed by classification)	on symbols)			
IPC 7	H02P				
Documentat	ion searched other than minimum documentation to the extent that s	such documents are included in the fields se	earched		
Electronic da	ata base consulted during the international search (name of data ba	se and, where practical, search terms used)		
	ternal, WPI Data, PAJ				
ELO-III	ternar, wit Data, Tho	,			
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.		
Α	US 4 532 461 A (CROOK JAMES C)		1-6		
	30 July 1985 (1985-07-30)				
	column 1, line 29 — line 34; clai column 5, line 35 — line 37	ms 1,2			
	Column 5, Time 35 - Time 37				
Α	PATENT ABSTRACTS OF JAPAN		1-6		
	vol. 1998, no. 02,				
	30 January 1998 (1998-01-30)				
-& JP 09 261991 A (FUJITSU GENERAL LTD), 3 October 1997 (1997-10-03)					
	abstract		į		
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ĺ					
Furth	ner documents are listed in the continuation of box C.	X Patent family members are listed	in annex.		
° Special ca	tegories of cited documents:	"T" tater document published after the inte	mational filling date		
"A" docume	"T" tater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory understand the principle or theory.				
	ered to be of particular relevance document but published on or after the international	invention			
filing d	filing date cannot be considered novel or cannot be considered to				
which	*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y* document of particular relevance; the claimed invention considered to involve an inventive step when the				
O docume	ent referring to an oral disclosure, use, exhibition or	cannot be considered to involve an involve an involve document is combined with one or mo	re other such docu-		
	other means ments, such combination being obvious to a person skilled in the art.				
later th	an the priority date claimed	*&* document member of the same patent	family		
Date of the	actual completion of the international search	Date of mailing of the international sea	urch report		
1	1 January 2001	22/01/2001			
Name and r	nailing address of the ISA	Authorized officer			
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk				
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Roy, C			



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information on patent family members

Interr nal Application No PCT/BR 00/00105

					 00/00105	
Pa	atent document d in search report		Publication date	Patent family member(s)	 Publication date	
US	4532461	Α	30-07-1985	NONE		
JP	09261991	Α	03-10-1997	NONE		
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Form PCT/ISA/210 (patent family annex) (July 1992)

PATENT COOPERATION TREATY

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REC'D 0 1 FEB 2002

INTERNATIONAL PRELIMINARY EXAMINATION REPORTS

PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	See Notification of Transmittal of International			
PE-3935	FOR FURTHER ACTION Preliminary Examination Report (Form PCT/IPEA/416)			
International application No.	International filing date (day/month/year) Priority date (day/month/year)			
PCT/BR 00/00105 20/09/2000				
International Patent Classification (IPC) or	r national classification and IPC			
	H02P6/12			
Applicant				
EMPRESA BRASILEIRA DE CO	MPRESSORES S.A. ET AL			
	mination report has been prepared by this International Preliminary Examining applicant according to Article 36.			
2. This REPORT consists of a total	al of sheets, including this cover sheet.			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consists of a total of	of sheets.			
3. This report contains indications re-	elating to the following items:			
I X Basis of the report				
II Priority				
III X Non-establishment of o	opinion with regard to novelty, inventive step and industrial applicability			
IV Lack of unity of invent	tion			
	nder Article 35(2) with regard to novelty, inventive step or industrial applicability; ons supporting such statement			
VI Certain documents cited	ed .			
VII Certain defects in the in	nternational application			
VIII Certain observations or	n the international application			
Date of submission of the demand	Date of completion of this report			
16/04/2001	25/01/2002			
Name and mailing address of the IPEA/	Authorized offices			
European Patent Office, Gitsch	Authorized officer THOMAES K G			
D-10969 Berlin - Germany Tel.: (+49-30) 25901-0 Fax: (+49-30) 25901-840	Tel. (+49-89) 2399 2828			
Form PCT/IPEA/409 (cover sheet) (July 1998)				

- I. Basis of report
- The basis of international preliminary examination report is the application as originally filed.
- III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- 2. The question of whether the claimed invention appears to be novel, to involve an inventive step, or to be industrially applicable has not been and will not be the subject of the international preliminary examination (Article 34 (4) (a) (i) (ii) PCT; see also international search report) in respect of:
- 2.1 Applications having an unnecessary plurality of independent claims (generally not more than 1 independent claim in the same category is necessary; Article 6 PCT);
- 2.2 unsearched subject-matter (Article 17 (2) (a), Rule 66.1 (e) PCT).
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 3. To the extent that the international preliminary examination has been carried out (see item III above), the following is pointed out (Article 35 (2) and (3) (b) and Rule 70.7 and 70.8 (ii) PCT):

In light of the documents cited in the international search report, it is considered that the invention as claimed in the independent claims meets the criteria mentioned in Article 33 (1) PCT, i.e. it appears to be novel, to involve an inventive step and to be industrially applicable.

The demand must be filed directly the competent International Preliminary Examining A prity or, if two or more Authorities are competent. The full name or two-letter code of that Authority may be indicated by the applicant on the line below:

IPEA/_EPO

PCT

CHAPTER II

DEMAND

under Article 31 of the Patent Cooperation Treaty:

The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

For International Preliminary Examining Authority use only				
		+ Daniming reasons, use only		
Identification of IPEA		Date of receipt of DEMAND		
Box No. I IDENTIFICATION OF T	HE INTERNATIONAL	. APPLICATION	Applicant's or agent's file reference PE-3935	
International application No. PCT/BR00/00105	International filing date 20 September (20.09.2000	r 2000	(Earliest) Priority date (day/month/year) 20 September 1999 (20.09.1999)	
Title of invention "A method for control for controlling elect			ctric motors, a system	
Box No. II APPLICANT(S)				
Name and address: (Family name followed by The address must include p	given name; for a legal entity, ostal code and name of country.	full official designation.	Telephone No. (47) 441 -2740	
EMPRESA BRASILEIRA DE EMBRACO		S S.A	Facsimile No. (47) 441-2548	
Rua Rui Barbosa, 1020 89210-901 - Joinville			Teleprinter No.	
Brazil			Applicant's registration No. with the Office	
State (that is, country) of nationality: BR State (that is, country) of residence: BR				
Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country.) DAINEZ, PAULO SERGIO Rua Rui Barbosa, 1431 - apt? 302 Bloco I Joinville, SC Brazil				
State (that is, country) of nationality:	BR	State (that is, countr	y) of residence:	
Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country.) VON DOKONAL, LUIZ Rua Visconde de Mauá, 241 Joinville, SC Brazil				
State (that is, country) of nationality: (BR State (that is, country) of residence: BR				
Further applicants are indicated on a continuation sheet.				

Sheet No. 0.2

International application No. PCT/BR00/00105

Continuation of Box No. II APPLICANT(S)				
If none of the following sub-boxes is used, this sheet should not be included in the demand.				
Name and address: (Family name followed by given name: for a legal entity. In SCHWARZ, MARCOS GUILHERME Rua General Osório, 257 Joinville, SC Brazil	ull official designation. The address must include postal code and name of country.)			
State (that is, country) of nationality: BR	State (that is, country) of residence: BR			
Name and address: (Family name followed by given name: for a legal entity, for	ull official designation. The address must include postal code and name of country.)			
				
State (that is, country) of nationality:	State (that is, country) of residence:			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)				
State (that is, country) of nationality:	State (that is, country) of residence:			
Name and address: (Family name followed by given name; for a legal entity. ful	l official designation. The address must include postal code and name of country.)			
State (that is, country) of nationality:	State (that is, country) of residence:			
Further applicants are indicated on another continuation shee	t.			

Sheet	NI.	0.3
Sheet	No.	V.S

International application No. PCT/BR00/00105

Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE				
The following person is X agent common representative				
and x has been appointed earlier and represents the applicant(s) also for international preliminary examination.				
is hereby appointed and any earlier appointment of (an) agent(s)/common repres				
is hereby appointed and any earner appointment of (air) agent(s)/common repressible to the international Preliminary (air) agent (s)/common repressible to the international Preliminary (s) and (s)/common repressible to the international Preliminary (s) and (s)/common repressible to the international Preliminary (s)/common repressible to the international Prelimina				
the agent(s)/common representative appointed earlier.	illiary Examining Authority, in addition to			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)	Telephone No.			
	(5521) 553.1811			
DANNEMANN, SIEMSEN, BIGLER & IPANEMA MOREIRA Rua Marques de Olinda, 70	Facsimile No. (5521) 553.1812			
Botafogo	(5521) 553.1812 553.1813			
22251-040 - Rio de Janeiro - RJ	Teleprinter No.			
Brazil	Agent's registration No. with the Office			
·				
Address for correspondence: Mark this check-box where no agent or common space above is used instead to indicate a special address to which correspondence	representative is/has been appointed and the e should be sent.			
Box-No.IV-BASIS-FOR-INTERNATIONAL-PRELIMINARY-EXAMINATION-				
Statement concerning amendments:*				
1. The applicant wishes the international preliminary examination to start on the basis of	of:			
x the international application as originally filed				
the description X as originally filed				
as amended under Article 34				
the claims X as originally filed				
as amended under Article 19 (together with any accompanyi	ng statement)			
as amended under Article 34				
the drawings x as originally filed				
as amended under Article 34				
2. The applicant wishes any amendment to the claims under Article 19 to be considered.	derad as reversed			
3. The applicant wishes the start of the international preliminary examination to be postponed until the expiration of 20 months from the priority date unless the International Preliminary Examining Authority receives a copy of any amendments made				
under Article 19 or a notice from the applicant that he does not wish to make such amendments (Rule 69.1(d)). (This check-box may be marked only where the time limit under Article 19 has not yet expired.)				
* Where no check-box is marked, international preliminary examination will start or				
as originally filed or, where a copy of amendments to the claims under Article 19 and/or	amendments of the international application			
under Article 34 are received by the International Preliminary Examining Authority before or the international preliminary examination report, as so amended.	ore it has begun to draw up a written opinion			
Language for the purposes of international preliminary examination: English				
x which is the language in which the international application was filed.				
which is the language of a translation furnished for the purposes of international search.				
which is the language of publication of the international application.				
which is the language of the translation (to be) furnished for the purposes of international preliminary examination.				
Box No. V ELECTION OF STATES				
The applicant hereby elects all eligible States (that is, all States which have been design the PCT)	ated and which are bound by Chapter II of			
excluding the following States which the applicant wishes not to elect:				

Sheet No. 04

International application No. PCT/BR00/00105

Box	No. VI CHECK LIST			·	
Th Bo	e demand is accompanied by the following eler x No. IV, for the purposes of international pre	nents, in the lar	nguage referred to in ination:	For Internatio Examining Au received	nal Preliminary ithority use only not received
1.	translation of international application	:	sheets		
2.	amendments under Article 34	:	sheets		
3.	copy (or, where required, translation) of amendments under Article 19	:	sheets		
4.	copy (or. where required, translation) of statement under Article 19	:	sheets		
5.	letter	:	sheets		
6.	other (specify)	:	sheets		
The	demand is also accompanied by the item(s) ma	arked below:			
l .	x fee calculation sheet		5. statement expla	ining lack of signati	ıre
2.	original separate power of attorney		6. sequence listing	g in computer readab	le form
3.			7. dother (specify):		
4.	copy of general power of attorney; reference number, if any:				
Box	No. VII SIGNATURE OF APPLICANT, A	GENT OR C	COMMON REPRESENT	TATIVE	
Next	to each signature, indicate the name of the person signing	g and the capacity	in which the person signs (if su	ch capacity is not obviou	s from reading the demand).
- oldlight					
Dannemann, Siemsen, Bigler & I panema Moreira					
1				•	
	For Internation	nal Preliminar	y Examining Authority us	e only	
,	Date of actual receipt of DEMAND:		, 3	·	,
1.	Date of actual receipt of DEMAND.				
2.	2. Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):				
3.	The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply.				
4.	The date of receipt of the demand is Rule 80.5.	WITHIN the p	period of 19 months from	the priority date as	extended by virtue of
5.	5. Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.				
		For Internation	al Bureau use only		
Den	nand received from IPEA on:		-		

PCT

FEE CALCULATION SHEET

Annex to the Demand

International application No. PCT/BR00/00105	 For International Preliminary Examining Authority use only
Applicant's or agent's	Date stamp of the IPEA
The reference	
Applicant EMPRESA BRASILEIRA DE COMPRESSORES S et al	S.A EMBRACO
CALCULATION OF PRESCRIBED FEES	
1. Preliminary examination fee	4 749.58 P
2. Handling fee (Applicants from certain States are entitled to a reduction of 75% of the handling fee. Where the applicant is (or all applicants are) so entitled, the amount to be entered at H is 25% of the handling fee.)	4 287.51 H
3. Total of prescribed fees Add the amounts entered at P and H and enter total in the TOTAL box	1.037.09 TOTAL
MODE OF PAYMENT	
authorization to charge deposit cash account with the IPEA (see below)	
cheque revenue stamp	s
postal money order coupons	
X bank draft other (specify)	<i>:</i>
AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACC (This mode of payment may not be available at all IPEAs)	
	IPEA/
Authorization to charge the total fees indicated above.	Deposit Account No.:
(This check-box may be marked only if the conditions for deposit accounts of the IPEA so permit) Authorization to charge any deficiency or credit any overpayment in	Date:
to charge any derictency of credit any overpayment in the total fees indicated above.	Name:

AMIEMANNI, SIEMSEN POLEPA: MOPERA

From the INTERNATIONAL SEARCHING AUTHORITY

DANNEMANN, SIEMSEN, BIGLER & IPANEMA MOREIRA Rua Marqués de Olinda, 70 Botafogo

PCT =

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

BRAZIL	(i of fide 44.1)
	Date of mailing (day/month/year) 22/01/2001
Applicant's or agent's file reference PE-39 35	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/BR 00/00105	International filing date (day/month/year) 20/09/2000
Applicant	
EMPRESA BRASILEIRA DE COMPRESSORES S.	.A.

1.	X	The applicant is hereby	notified that the International Search Report has been established and is transmitted herewith.								
			Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):								
		When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.									
	_	Where? Directly to the	International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35								
		For more detailed inst	ructions, see the notes on the accompanying sheet.								
2.			notified that no International Search Report will be established and that the declaration under ffect is transmitted herewith.								
3.		With regard to the pro	test against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:								
			er with the decision thereon has been transmitted to the International Bureau together with the to forward the texts of both the protest and the decision thereon to the designated Offices.								
		no decision has be	een made yet on the protest; the applicant will be notified as soon as a decision is made.								
4.	Furth	ner action(s): The app	olicant is reminded of the following:								
	If th	ne applicant wishes to avority claim, must reach th	the priority date, the international application will be published by the International Bureau. oid or postpone publication, a notice of withdrawal of the international application, or of the e International Bureau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the preparations for international publication.								
	Withi	n 19 months from the pr	riority date, a demand for international preliminary examination must be filed if the applicant								

wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later). Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the

Name and mailing address of the International Searching Author	it
European Patent Office, P.B. 5818 Patentlaan 2	
NL-2280 HV Bijswijk	

priority date or could not be elected because they are not bound by Chapter II.

Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Cornelia Schulze

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These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international pbulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International-Preliminary Examining-Authority.—The description-and-drawings-may-only-be-amended-under-Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 45.2).

Where a demand for international preliminary examination has been fis filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (c ntinued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PE-39 35	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below			
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/BR 00/00105	20/09/2000	20/09/1999		
Applicant EMPRESA BRASILEIRA DE COM	PRESSORES S.A.			
according to Article 18. A copy is being tra This International Search Report consists	_			
Basis of the report a. With regard to the language, the language in which it was filed, unloading to the language in which it was filed, unloading to the language in which it was filed.	international search was carried out on the bas ess otherwise indicated under this item.	is of the international application in the		
Authority (Rule 23.1(b)).	as carried out on the basis of a translation of the	• •		
 b. With regard to any nucleotide and was carried out on the basis of the 		ernational application, the international search		
contained in the internation	nal application in written form.	•		
filed together with the inter	mational application in computer readable form			
furnished subsequently to	this Authority in written form.			
furnished subsequently to	this Authority in computer readble form.			
the statement that the sub international application as	sequently furnished written sequence listing do s filed has been furnished.	es not go beyond the disclosure in the		
the statement that the info furnished	rmation recorded in computer readable form is	identical to the written sequence listing has been		
2. Certain claims were foun	id unsearchable (See Box I).			
3. Unity of invention is lack	ing (see Box II).			
4. With regard to the title ,				
the text is approved as sub	omitted by the applicant.			
the text has been establish	ed by this Authority to read as follows:			
5. With regard to the abstract,				
the text is approved as sub the text has been establish within one month from the	omitted by the applicant. ed, according to Rule 38.2(b), by this Authority date of mailing of this international search repo	as it appears in Box III. The applicant may, ort, submit comments to this Authority.		
6. The figure of the drawings to be publis	shed with the abstract is Figure No.	4		
X as suggested by the applic	ant	None of the figures.		
because the applicant faile	d to suggest a figure.	-		
because this figure better of	characterizes the invention.			

formation on patent family members

International Application No
PCT/BR 00/00105

				PCT/BR 00/00105					
c	Pa ited	tent document in search report		Publica date	ation	Patent family member(s)		Publication date	
l	JS	4532461	Α	30-07-	-1985	NONE			
ت	IP	09261991	Α	03-10-	-1997	NONE			_
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<u>.</u> .	-			· · ·			·		

International application No.

INTERNATIONAL SEARCH REPORT

PCT/BR 00/00105

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The abstract is changed as follows:

A method for controlling and protecting electric motors (10) provided with a rotor, specially permanent magnet motors electronically actuated by a control system (2) comprising a three-phase inverting bridge (5), characterized by being comprised of the step of counting a first period of time, during which said rotor should be between an original position and the next position, and the step of counting a second period of time that follows said first period of time, during which said rotor should pass through said next position. The present invention is also expressed as a control system (2) for an electric motor (10) provided with a rotor, specially a permanent magnet motor, comprising a three-phase inverting bridge (5) and characterized by being additionally comprised of a microcontroller capable of analyzing the positions of the rotor as a function of the time, associated with a counter capable of carrying out the step of counting a first period of time, during which said rotor should be between an original position and the next position, and the stage of counting a second period of time that follows said first period of time, during which said_rotor_should_pass_through_said_next_position,_as_well_as_an_electric_motor_ (1) comprising the control system (2).

International Application No PCT/BR 00/00105

A. CLASS IPC 7	SIFICATION OF SUBJECT MATTER H02P6/12		
According t	to International Patent Classification (IPC) or to both national class	sification and IPC	
B. FIELDS	SEARCHED		
Minimum d IPC 7	ocumentation searched (classification system followed by classific H02P	cation symbols)	
	ation searched other than minimum documentation to the extent tha		
İ	data base consulted during the international search (name of data ternal, WPI Data, PAJ	base and, where practical, search terms use	d) -
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.
_A	US 4 532 461 A (CROOK JAMES C)		1-6
	30 July 1985 (1985-07-30) column 1, line 29 - line 34; cla column 5, line 35 - line 37	aims 1,2	
Α	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 02, 30 January 1998 (1998-01-30) -& JP 09 261991 A (FUJITSU GENER 3 October 1997 (1997-10-03) abstract	1-6	
		_	·
Furth	ner documents are listed in the continuation of box C.	Patent family members are listed	in annex.
"A" docume conside "E" earlier difling de "L" documer which i citation "O" docume other m	nt which may throw doubts on priority claim(s) or is cited to establish the publication date of another or other special reason (as specified) entreferring to an oral disclosure, use, exhibition or	 *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family 	
	actual completion of the international search 1 January 2001	Date of mailing of the international sea	arch report
Name and m	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk	Authorized officer	
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Roy, C	

PATENT COOPERATION TREA

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

DANNEMANN, SIEMSEN, BIGLER & IPANEMA MOREIRA Rua Marqués de Olinda, 70 Botafogo 22251-040 - Rio de Janeiro - RJ BRESIL

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

VORAB

IMPORTANT NOTIFICATION

C) C

BY FAX Date of mailing (day/month/year)

30/01/2002

Applicant's or agent's file reference

PCT/BR 00/00105

PE-3935

International filing date (day/month/year)

Priority date (day/month/year)

International application No.

20/09/2000

Applicant

EMPRESA-BRASILEIRA-DE-COMPRESSORES-S.A.-ET-AL-

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international 1. preliminary examination report and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the 2. elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but 3. not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

European-Patent Office, Gitschiner Str. 103 - D-10969 Berlin - Germany Tel.: (+49-30) 25901-0 Fax: (+49-30) 25901-840

Authorized officer

TSOGKA P

Tel. (+49-89) 2399 2828



Form PCT/IPEA/416 (July 1992) P20473

PATENT COOPERATION TREA **PCT**

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	Ī	Con NotiGont	ion of Tourseited of Internal
PE-3935	FOR FURTHER ACTION		ion of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/	month/year)	Priority date (day/month/year)
PCT/BR 00/00105	20/09/2000		
International Patent Classification (IPC) or	national classification and IPC		
	H02P6/12		
Applicant			
EMPRESA BRASILEIRA DE CO	MPRESSORES S.A. ET	AL	
This international preliminary exar Authority and is transmitted to the			ational Preliminary Examining
2. This REPORT consists of a total	of 2 sheets, including	this cover shee	t.
been amended and are the ba		containing rectif	on, claims and/or drawings which have lications made before this Authority PCT).
These annexes consists of a total o	fsheets.		
3. This report contains indications rel	ating to the following items:		
I X Basis of the report			
II Priority	•		
III X Non-establishment of o	pinion with regard to novelty, in	ventive step and	industrial applicability
IV Lack of unity of inventi	on		
	der Article 35(2) with regard to mass supporting such statement	ovelty, inventiv	e step or industrial applicability;
VI Certain documents cited	1		
VII Certain defects in the in	ternational application		
VIII Certain observations on	the international application		
Date of submission of the demand	. Date (of completion of	this report
16/04/2001		25/01/2	002
Name and mailing address of the IPEA/	Į.	rized officer	(4)
European Patent Office, Gitschi D-10969 Berlin - Germany	ner Str. 103	íAES_K.G_	OGS BRENEYS
Tel.: (+49-30) 25901-0 Fax: (+49-30) 25901-840	Tel. (-	+ 49-89) 2399 28	

Form PCT/IPEA/409 (cover sheet) (July 1998)

- I. Basis of report
- 1. The basis of international preliminary examination report is the application as originally filed.
- III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- 2. The question of whether the claimed invention appears to be novel, to involve an inventive step, or to be industrially applicable has not been and will not be the subject of the international preliminary examination (Article 34 (4) (a) (i) (ii) PCT; see also international search report) in respect of:
- 2.1 Applications having an unnecessary plurality of independent claims (generally not more than 1 independent claim in the same category is necessary; Article 6 PCT);
- 2.2 unsearched subject-matter (Article 17 (2) (a), Rule 66.1 (e) PCT).
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 3. To the extent that the international preliminary examination has been carried out (see item III above), the following is pointed out (Article 35 (2) and (3) (b) and Rule 70.7 and 70.8 (ii) PCT):

In light of the documents cited in the international search report, it is considered that the invention as claimed in the independent claims meets the criteria mentioned in Article 33 (1) PCT, i.e. it appears to be novel, to involve an inventive step and to be industrially applicable.

PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

Pat / Baceiving Office use only 105

International Application No.

20 SET 2000 211-9- 00

International Filing Date

INPUBRAZIL-PCT INTERNATIONAL APPLICATION

Name of receiving Office and "PCT International Application"

	(if desired) (12 characters m						
Box No.1 TITLE OF INVENTION "A method for controlling and protecting electric motors, a system for controlling electric motors and an electric motor system"							
Box No. II APPLICANT	·						
Name and address: (Family name followed by given name; for a designation. The address must include postal code and name of cou address indicated in this Box is the applicant's State (that is, country of residence is indicated below.)	Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)						
EMPRESA BRASILEIRA DE COMPRESSORI EMBRACO	ES S.A	Telephone No. (47) 441 - 2740					
Rua Rui Barbosa, 1020 89210-901- Joinville, SC		Facsimile No. (47) 441 - 2548					
Brazil		Teleprinter No.					
State (that is, country) of nationality: BR	State (that is, country) of BR	residence:					
This person is applicant all designated for the purposes of: all designated		United States America only the States indicated in the Supplemental Box					
Box No. III FURTHER APPLICANT(S) AND/OR (FURTH	HER) INVENTOR(S)						
Name and address: (Family name followed by given name; for a ladesignation. The address must include postal code and name of cour address indicated in this Box is the applicant's State (that is, country) of residence is indicated below.) DAINEZ, PAULO SERGIO Rua Rui Barbosa, 1431 - apt? 302 Bloco I Joinville, SC Brazil	oj residence ij no Stale	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)					
State (that is, country) of nationality: BR	State (that is, country) of BR	residence:					
This person is applicant for the purposes of: all designated the United States all designated the United States		United States the States indicated in the Supplemental Box					
X Further applicants and/or (further) inventors are indicated or	n a continuation sheet.						
Box No. IV AGENT OR COMMON REPRESENTATIVE;	OR ADDRESS FOR CO	DRRESPONDENCE					
The person identified below is hereby/has been appointed to act or of the applicant(s) before the competent International Authorities a	n behalf X ag	ent common representative					
Name and address: (Family name followed by given name; for a designation. The address must include postal con		Telephone No. (5521) 553.1811					
DANNEMANN, SIEMSEN, BIGLER & IPAN Rua Marquês de Olinda, 70 Botafogo 22251-040 - Rio de Janeiro - RJ	EMA MOREIRA	Facsimile No. (5521) 553.1812 553.1813					
Brazil		Teleprinter No.					
Address for correspondence: Mark this check-box where no space above is used instead to indicate a special address to w	o agent or common represe hich correspondence shoul	ntative is/has been appointed and the d be sent.					

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)							
If none of the following sub-boxes is used, this sheet should not be included in the request.							
Name and address: (Family name followed by given name: for a designation. The address must include postal code and name of cou address indicated in this Box is the applicant's State (that is, country of residence is indicated below.)	legal entity, full official niry. The country of the officesidence if no State This person is: applicant only						
VON DOKONAL, LUIZ Rua Visconde de Mauá, 241	applicant and inventor						
Joinville, SC Brazil	inventor only (If this check-box is marked, do not fill in below.)						
State (that is, country) of nationality:	State (that is, country) of residence:						
BR	States except the United States the States indicated in						
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SCHWARZ, MARCOS GUILHERME	applicant only						
Rua General Osório, 257	x applicant and inventor						
Joinville, SC Brazil	inventor only (If this check-box is marked, do not fill in below.)						
State (that is, country) of nationality: BR	State (that is, country) of residence:						
	BR						
This person is applicant all designated for the purposes of:	States except x the United States the States indicated in the Supplemental Box						
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of residence is indicated below.)	applicant only						
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This person is applicant all designated for the purposes of: all designated the United States	States except the United States the States indicated in the Supplemental Box						
Further applicants and/or (further) inventors are indicated on	another continuation sheet.						

E	ox N	o.V DESIGNATION OF STATES			POT/BO DO / DO A DE						
T	The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):										
R	Regional Patent										
		ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, L	S Le gand	sotho da, ZV	, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone V Zimbabwe, and any other State which is a Contracting State						
		RU Russian Federation, TJ Tajikistan, TM Turkmenista Convention and of the PCT	n, ar	nd any	KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, other State which is a Contracting State of the Eurasian Patent						
2	₫ EP	European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT									
] OA	OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)									
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	_	United Arab Emirates		_	Saint Lucia						
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	IL	Israel \	X	US	United States of America						
	IN	India		UZ	Uzbekistan						
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		Democratic People's Republic of Korea	_								
=		Republic of Korea	par	ty to t	ox reserved for designating States which have become the PCT after issuance of this sheet:						
==		Kazakhstan									
des	Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded										
fror	n the	scope of this statement. The applicant declares that the	uesi ise a	ignatio idditio	onal designations are subject to confirmation and that any						
desi	gnati	on which is not confirmed before the expiration of 15 month	ıs fr	om the	priority date is to be regarded as withdrawn by the applicant						
at ti	ne exp	piration of that time limit. (Confirmation (including fees) mus	t rea	ch the	receiving Office within the 15-month time limit.)						

Sheet No. 04

Box No. VI PRIORITY	Box No. VI PRIORITY CLAIM		Furt Proporting claims are indicated in the Supplemental Bo				
Filing date Number		Where earlier application is					
of earlier application (day/month/year)	of earlier application	national application:	regional application:	 .			
(day/montro year)		country	regional Office	international application receiving Office			
item (1) 20 September 1999 (20.09.99)	PI 9904253-3	BR		issum g office			
item (2)							
item (3)							
item (3)							
purposes of the present in	juested to prepare and transicial (only if the earlier application is the earlier application is the earlier application in the e	cation was filed with the decrease receiving Office) identification	Office which for the ed above as item(s):	1			
* Where the earlier application is Convention for the Protection of In			upplemental Box at least o ed (Rule 4.10(b)(ii)). See S	ne country party to the Pa			
Box No. VII INTERNATIO	NAL SEARCHING AUT	HORITY		Typicinal Dox.			
Choice of International Search (if two or more International Sec competent to carry out the interna- the Authority chosen; the two-letter	rching Authorities are sear ttional search, indicate	uest to use results of earl ch has been carried out by or r c (day/month/year)		ional Searching Authority)			
ISA/ EPO		,	1401110Cl	Country (or regional Office			
Box No. VIII CHECK LIST	LANGUAGE OF FILE	10					
This international application co							
the following number of sheets	1. fee calcula	l application is accompani	ed by the item(s) market	d below:			
request : 4	•						
description (excluding sequence listing part) 5		gned power of attorney neral power of attorney; r	- C				
claims : 2		explaining lack of signature					
abstract : 1		cument(s) identified in Bo					
drawings : 3		of international application					
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Total number of sheets: 15	9 M other (speci	and/or amino acid sequenc ify): inventors !		idable form			
Figure of the drawings which	Lane	guage of filing of the	assignment				
should accompany the abstract:	4 interr	national application:	English				
Box No. IX SIGNATURE O	F APPLICANT OR AGE	NT		· · · · · · · · · · · · · · · · · · ·			
Next to each signature, indicate the nam	of the person signing and the ca	pacity in which the person signs	(if such canacity is not abuse	us from an diam of			
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1 Description	For recei	iving Office use only					
 Date of actual receipt of the printernational application: 	irported SET	2000 2 11 - 3	በበ	2. Drawings:			
 Corrected date of actual receip timely received papers or draw the purported international app 	t due to later but		00	received:			
4. Date of timely receipt of the recorrections under PCT Article	quired			not received:			
5. International Searching Author (if two or more are competent):	ity ISA/	6. Transmittal or until search fe	f search copy delayed				
	For Internati	ional Bureau use only		<u> </u>			
Date of receipt of the record copy		Deread use only					
by the International Bureau:							
orm PCT/RO/101 (last sheet) (July	1998; reprint January 2000)	See No	otes to the request form			

This sheet is not part of and does not count as a sheet of the international application.

PCT

FEE CALCULATION SHEET Annex to the Request

For receiving Office use only

PCT/BR 00 / 0 0 1 0 5

International application No.

Applicant's or agent's file reference PE-393	35	Date stamp of the receiving Office	
Applicant EMPRESA BRASILEIRA I	DE COMPRESSORES S	.A EMBRACO	
CALCULATION OF PRESCRIBE 1. TRANSMITTAL FEE 2. SEARCH FEE DEM 462.0 International search to be carried of (If two or more International Searchin application, indicate the name of the Aut. 3. INTERNATIONAL FEE Basic Fee The international application contact first 30 sheets CHF 650 x 1.	7 x 0.811392 out by EPO g Authorities are competent in relationarity which is chosen to carry out the sains 15 sheets. 04042 67	236,00 T S ion to the international international search.) 6,27 b1 b2	
	and enter total at B	676 ,27 B	
Add amounts entered at B and D an (Applicants from certain States are international fee. Where the applicant total to be entered at I is 25% of the	entitled to a reduction of 75% at is (or all applicants are) so entitl sum of the amounts entered at B a	of the ed, the and D.)	
 FEE FOR PRIORITY DOCUMEN TOTAL FEES PAYABLE Add amounts entered at T, S, I and The designation fees are not paid 	P, and enter total in the TOTAL t	75,00 P R\$ 2381,79 TOTAL	
MODE OF PAYMENT			1
authorization to charge deposit account (see below) cheque postal money order	bank draft cash revenue stamps	coupons other (specify):	
The RO/ is hereby au (this check-hereby auth deposit according is hereby au	thorized to charge the total fees in the charge any be marked only if the charge any-deficiency bunt.	nay not be available at all receiving Office indicated above to my deposit account. conditions for deposit accounts of the rece or credit any-overpayment in the total fee paration and transmittal of the priority doc	eiving Office so permit) is es indicated above to my
Deposit Account No.	Date (day/month/year)	Signature	

This sheet is not part of and does not count as a sheet of the international application.

PCT

FEE CALCULATION SHEET Ann x to the Request

For receiving Office use only

OCT/BR 00 / 0 0 1 0 5

International application No.

Applicant's or agent's file reference PE-3935	ate stamp of the receiving Office
Applicant EMPRESA BRASILEIRA DE COMPRESSORES S.A.	- EMBRACO
CALCULATION OF PRESCRIBED FEES I. TRANSMITTAL FEE	236,00 T
2. SEARCH FEE DEM 462.07 x 0.811392 International search to be carried out by EPO	S
(If two or more International Searching Authorities are competent in relation to application, indicate the name of the Authority which is chosen to carry out the internal	the international tional search.)
international fee	
Basic Fee The international application contains 15 sheets.	
first 30 sheets CHF 650 x 1.04042 676,2	7 ы
x =	b2
remaining sheets additional amount	636 23 🗔
Add amounts entered at b1 and b2 and enter total at B	676 ,27 B
Designation Fees The international application contains 7 designations.	
	.695,61 D
number of designation fees amount of designation fee payable (maximum 8)	
Add amounts entered at B and D and enter total at I	1.695,88 1
4. FEE FOR PRIORITY DOCUMENT (if applicable)	75,00 P
5. TOTAL FEES PAYABLE	R\$ 2381,79 TOTAL
The designation fees are not paid at this time.	
MODE OF PAYMENT	
authorization to charge deposit account (see below) bank draft cash postal money order revenue stamps	coupons other (specify):
DEPOSIT ACCOUNT AUTHORIZATION (this made of	
DEPOSIT ACCOUNT AUTHORIZATION (this mode of payment may not The RO/ is hereby authorized to charge the total fees indicated to charge the charge t	
(this check-box may be marked only if the condition hereby authorized to charge any deficiency or credeposit account.	ons for deposit accounts of the receiving Office so permit) is dit_any overpayment in the total fees indicated above to my
is hereby authorized to charge the fee for preparation Bureau of WIPO to my deposit account.	on and transmittal of the priority document to the International
Deposit Account No. Date (day/month/year)	Signature

HATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION (PCT Rule 61.2) Date of mailing (day/month/year) 29 May 2001 (29.05.01)	Commissioner US Department of Commerce United States Patent and Trademark Office, PCT 2011 South Clark Place Room CP2/5C24 Arlington, VA 22202 ETATS-UNIS D'AMERIQUE in its capacity as elected Office
International application No.	Applicant's or agent's file reference
PCT/BR00/00105	PE-3935
International filing date (day/month/year)	Priority date (day/month/year)
20 September 2000 (20.09.00)	20 September 1999 (20.09.99)
Applicant	
DAINEZ, Paulo, Sergio et al	
7.007.00	
The designated Office is hereby notified of its election made in the demand filed with the International Preliminary 16 April 2001 (in a notice effecting later election filed with the International Preliminary 2. The election was	Examining Authority on: 16.04.01)
made before the expiration of 19 months from the priority of Rule 32.2(b).	late or, where Rule 32 applies, within the time limit under

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Olivia TEFY

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

I FENT COOPERATION TREA ...

PCT

From the INTERNATIONAL BUREAU

ΙTο

NOTIFICATION OF RECEIPT OF RECORD COPY

(PCT Rule 24.2(a))

DANNEMANN, SIEMSEN, BIGLER & IPANEMA MOREIRA Rua Marquês de Olinda, 70 Botafogo CEP-22251-040 Rio de Janeiro, RJ BRÉSIL

Date of mailing (day/month/year) 08 November 2000 (08.11.00)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference PE-3935	International application No. PCT/BR00/00105

The applicant is hereby notified that the International Bureau has received the record copy of the international application as detailed below.

Name(s) of the applicant(s) and State(s) for which they are applicants:

EMPRESA BRASILEIRA DE COMPRESSORES S.A. - EMBRACO (for all designated States except US)

DAINEZ, Paulo, Sergio et al (for US)

International filing date

20 September 2000 (20.09.00)

Priority date(s) claimed

20 September 1999 (20.09.99)

Date of receipt of the record copy by the International Bureau

25 October 2000 (25.10.00)

List of designated Offices

EP:AT,BE,CH,CY,DE,DK,ES,FI,FR,GB,GR,IE,IT,LU,MC,NL,PT,SE

National :CN, JP, KR, SG, TR, US

ATTENTION

The applicant should carefully check the data appearing in this Notification. In case of any discrepancy between these data and the indications in the international application, the applicant should immediately inform the International Bureau.

In addition, the applicant's attention is drawn to the information contained in the Annex, relating to:

 $\left[\mathbf{x} \right]$

time limits for entry into the national phase

X

confirmation of precautionary designations

| X

requirements regarding priority documents

A copy of this Notification is being sent to the receiving Office and to the International Searching Authority.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer:

Eugénia Santos

Facsimile No. (41-22) 740.14.35

Telephone No. (41-22) 338.83.38